10. Teaching of accurate tracking of objects using any form of radio communications by preserving the algorithm transparency.

11. Teaching of accurate tracking of objects in-doors (including between the floors) and out-doors.

12. Teaching of accurate tracking of objects moving continuously between in-door and out-door.

13. Teaching of application of tracking in an all wireless network centric scenario that consists of any combination of integrated radio communications systems including all forms of radio communications.

VI. ABSTRACT OF THE DISCLOSURE

The proposed invention describes the teaching of the Real Time Predictive Trajectory Pairing (RTPTP) polynomial and its use for tracking moving objects on ground or over the air using four previous locations as reference to track the next location. It also teaches the use of a windowing mechanism of taking previous locations to compute the next location as part of a continuous tracking method. The proposed invention provides very accuracy of tracking over that of GPS-based systems. Therefore, the applications including homeland security and future combat systems would immensely benefit in the wake of different types of wars and to combat terrorism.